

ABSTRACT

A cam assisted wheel brake for a bicycle comprising two arms mounted on a bolt, which provides a pivot point for the arms and a means for attachment of the brake to the fork of the bicycle. The brake incorporates a cam lever pivotably associated
5 with the first arm and which engages a finger portion of the second arm and which comprising a first portion having a screw passing through a bore, a middle portion having a top edge having a curved edge portion, and a second portion pivotably connected to the first arm by a pin extending therethrough. The invention preferably has a quick release mechanism comprising a lever having a
10 first pin extending therefrom, the pin pivotably engaging a bore in the first arm, and a second pin extending off axis from the first pin and pivotably engaging the second portion of the cam lever. When a brake cable attached to the first portion of the cam lever and passing through a brake cable adjuster associated with the first arm, is pulled (via a conventional lever or other brake actuating device) the
15 cam lever pivots about the pin at the cam lever second portion, causing the curved edge portion to engage the second arm finger portion and exert a squeezing force of the two arms toward each other. When so actuated, brake pads mounted to each of the first and second arms engage the rim of the wheel and cause braking action. The first and second arms are biased away from each other by a spring associated
20 with each of the arms. The tab of the quick release may be moved upward to drop the fulcrum of the cam lever. This drops the curved edge portion of the cam lever and allows the brake to open up farther so as to enable release of the wheel from the frame.